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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kenichi KOYAKUMARU, et al.

SERIAL NO.: NEW U.S. PCT APPLICATION

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INTERNATIONAL APPLICATION NO.: PCT/JP03/09316

INTERNATIONAL FILING DATE: July 23, 2003

FOR: PROCESS FOR PRODUCING 5-(2'-PYRIDYL)-2-PYRIDONE DERIVATIVE

REQUEST FOR CONSIDERATION OF DOCUMENTS
CITED IN INTERNATIONAL SEARCH REPORT

Commissioner for Patents
Alexandria, Virginia 22313

Sir:

In the matter of the above-identified application for patent, notice is hereby given that applicant(s) request that the Examiner consider the documents cited in the International Search Report according to MPEP §609 and so indicate by a statement in the first Office Action that the information has been considered. When the Form PCT/DO/EO/903 indicates both the search report and copies of the documents are present in the national stage file, there is no requirement for the applicant(s) to submit them (1156 O.G. 91 November 23, 1993).

Respectfully submitted,

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09316

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C07D213/64, 213/69

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ C07D213/64, 213/69

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
REGISTRY (STN), CAPLUS (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/96308 A1 (EISAI CO., LTD.), 20 December, 2001 (20.12.01), All references; particularly, description, pages 51 to 62, 201 to 202 & GB 22483 D & NO 20025955 D & AU 6272301 A	1-3
Y	US 6169184 B1 (BASF AG.), 02 January, 2001 (02.01.01), All references; particularly, columns 2 to 6; column 10, lines 30 to 45 & AU 4456497 A & TW 448158 B & DE 19636995 A & WO 98/11069 A1 & EP 931068 A & CN 1230181 A & HU 9904096 A & JP 13-500140 A	1-3

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
17 September, 2003 (17.09.03)

Date of mailing of the international search report
07 October, 2003 (07.10.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09316

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BONNET, V.; MONGIN, F.; TRECOURT, F.; QUEGUINER, G.; KNOCHER, P., Synthesis of substituted pyridines, quinolines and diazines via palladium-catalyzed cross-coupling of aryl Grignard reagents., Tetrahedron, Vol.58, No.22, 20 May, 2002 (20.05.02), Vol.58, No.22, pages 4429 to 4438; Particularly, page 4429, right column, 5th line from the bottom to page 4430, right column, line 5; Scheme 2	1-3
A	JP 2000-80082 A (Kuraray Co., Ltd.), 21 March, 2000 (21.03.00), All references; particularly, Claims; Par. No. [0013] (Family: none)	1-3
A	HEIRTZLER, F.; NEUBURGER, M.; ZEHNDER, M.; CONSTABLE, E.C., Preparation and Characterization of Oligo(2,2-bipyridy) pyrazines, Liebigs Ann./Recueil, 1997, pages 297 to 301, all references; particularly, page 297, Scheme 1	1-3
A	WO 98/07700 A1 (BASF AG.), 26 February, 1998 (26.02.98), All references; particularly, description, pages 36 to 37 & AU 4118397 A & DE 19633746 A & EP 920415 A & JP 2000-517303 A	1-3
A	WAKABAYASHI, S.; TANAKA, T.; KUBO, J.; UENISHI, J.; OAE, S. A Cross-coupling Reaction of Methylsulfinylarene., Bull.Chem.Soc.Jon., 1989, Vol.62, No.12, pages 3848 to 3850 all references	1-3